

For Research Use Only

Recombinant Human ST2/IL-1RL1 protein (Myc Tag, His Tag)



Catalog Number: Eg0116

Basic Information

Species:

Human

Purity:

>90 %, SDS-PAGE

Tag:

Myc Tag, His Tag

EC50:

47-188 ng/mL

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human ST2 protein Lys19-Phe328 (Accession# Q01638-2) with a Myc tag and a His tag at the C-terminus.

GeneID:

9173

Accession:

Q01638-2

Predicted Molecular Mass:

37.5 kDa

SDS-PAGE:

50-70 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human IL-33 (His tag) at 0.5 μ g/mL (100 μ L/well) can bind Human ST2 (Myc tag, His tag) with a linear range of 47-188 ng/mL.

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Protein ST2, also known as IL1RL1, is a member of the interleukin 1 receptor family. The gene of ST2 encodes three splice variants: a soluble secreted form (sST2), a transmembrane receptor form (ST2L), and a variant form of ST2 (ST2V). Interleukin-33 (IL-33) has been identified as a functional ligand of ST2L. IL-33 exerts its cellular functions by binding a receptor complex composed of ST2L and IL-1R accessory protein (IL-1RAcP). The interaction of IL-33 and ST2L activates mitogen-activated protein kinases and several biochemical pathways. The end of these reactions is the activation of the inhibitor of nuclear factor- κ B (NF- κ B) kinase complex, triggering NF- κ B activity. sST2 seems to act as a decoy-receptor for IL-33: it binds IL-33 thus subtracting such a molecule from the interaction with ST2L. sST2 is formed by many cells and sST2 level is increased as response to myocardial stress, as well as in inflammatory conditions, including allergic asthma.

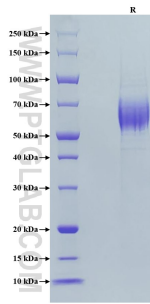
References

1. Kuroiwa K, et al. (2000) *Hybridoma*.19(2):151-9.
2. Pecaric-Petkovic T, et al. (2009) *Blood*. 113(7):1526-34.
3. Ciccone MM, et al. (2013) *Molecules*. 18(12):15314-28.
4. Pascual-Figal DA, et al. (2015) *Am J Cardiol*. 115(7 Suppl):3B-7B.

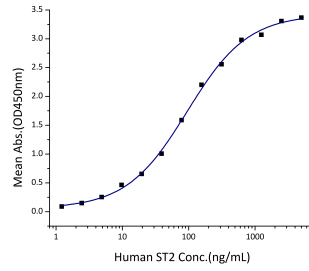
Synonyms

ST2/IL-1 RL1, IL1RL1, DER4, EC:3.2.2.6, FIT 1

Selected Validation Data



Purity of Recombinant Human ST2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



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For technical support and original validation data for this product please contact

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